

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b).)

Attorney Docket No. SD-8488  
First Inventor or Application Identifier CARDINALE  
Title PROGRAMMABLE IMPRINT LITHOGRAPHY TEMPLATE  
Express Mail Label No. EL177882083US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ \*Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and duplicate for fee processing)
2. ☒ Specification [Total Pages **13**]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **6**]
4. ☐ Oath or Declaration [Total Pages ☐]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

**\*NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).**

ADDRESS TO: MS Patent Application  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

5. ☐ Microfiche Computer Program (Appendix)
6. ☐ Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement  
(when there is an assignee)
9. ☐ English Translation Document (if applicable) ☐ Power of Attorney
10. ☐ Information Disclosure Statement (IDS)/PTO-1449
11. ☐ Preliminary Amendment ☐ Copies of IDS Citations
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ \*Small Entity Statement(s) ☐ Statement filed in prior application, Status still proper and desired (PTO/SB/09/12)
14. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
15. ☐ Other: \_\_\_\_\_

## 16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

- ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_/\_\_\_\_\_  
Prior application information: Examiner \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

**For CONTINUATION or DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label **Customer #** \_\_\_\_\_ or ☐ Correspondence address below  
(Insert Customer No. or Attach bar code label here)

Name	Timothy P. Evans				
	MS 9031				
Address	Sandia National Laboratories				
	7011 East Av nue,				
City	Liv rmore,	State	CA	Zip Code	94550
Country	USA	Telephone	((25) 294-3690	Fax	(925) 294-3389
Name (Print/Type)	Timothy P. Evans		Registration No. (Attorney/Agent)		
Signature			44,013		Date   1/13/2004

Burden Hour Statement: This form is estimated to take 1/2 hour to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FILES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">FOR FY 2004</h2> <p style="font-size: small; margin: 5px 0;">Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, Otherwise large entity fees must be paid. See Forms PTO/SB/09-12.</p>		Complete if Known	
		Application Number	NOT ASSIGNED
		Filing Date	January 13, 2004
		First Named Inventor	Cardinale
		Examiner Name	NOT ASSIGNED
Group / Art Unit		NOT ASSIGNED	
TOTAL AMOUNT OF PAYMENT (\$770.00)		Attorney Docket No. SD-8488	

  

<h3 style="margin: 0;">METHOD OF PAYMENT (check one)</h3> <p>The Commissioner is hereby authorized to charge</p> <p>1. <input checked="" type="checkbox"/> Indicated fees and credit any over payments to:</p> <p>Deposit Account Number <span style="border: 1px solid black; padding: 2px;">50-0583</span></p> <p>Deposit Account Name <span style="border: 1px solid black; padding: 2px;">SNL BY KCO</span></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p>2. Payment Enclosed:</p> <p><input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<h3 style="margin: 0;">FEE CALCULATION (continued)</h3> <h4 style="margin: 5px 0;">3. ADDITIONAL FEES</h4> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840</td><td>1805</td><td>1,840</td><td>Requesting publication of SIR after Examiner</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>460</td><td>2502</td><td>230</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final refection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;">*Reduced by Basic Filing Fee Paid</td> <td> <b>SUBTOTAL (3)</b> <span style="border: 1px solid black; padding: 2px;">(\$)-0-</span> </td> </tr> </tbody> </table>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1051	130	2051	65	Surcharge - late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1,840	1805	1,840	Requesting publication of SIR after Examiner		1251	110	2251	55	Extension for reply within first month		1252	420	2252	210	Extension for reply within second month		1253	950	2253	475	Extension for reply within third month		1254	1,480	2254	740	Extension for reply within fourth month		1255	2,010	2255	1,005	Extension for reply within fifth month		1401	330	2401	165	Notice of Appeal		1402	330	2402	165	Filing a brief in support of an appeal		1403	290	2403	145	Request for oral hearing		1451	1,510	138	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive - unavoidable		1453	1,330	2453	665	Petition to revive - unintentional		1501	1,330	2501	665	Utility issue fee (or reissue)		1502	460	2502	230	Design issue fee		1503	640	2503	320	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Petitions related to provisional applications		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)		1809	770	2809	385	Filing a submission after final refection (37 CFR 1.129(a))		1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____						Other fee (specify) _____						*Reduced by Basic Filing Fee Paid					<b>SUBTOTAL (3)</b> <span style="border: 1px solid black; padding: 2px;">(\$)-0-</span>
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																
1051	130	2051	65	Surcharge - late filing fee or oath																																																																																																																																																																																	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																	
1053	130	1053	130	Non-English specification																																																																																																																																																																																	
1812	2,520	1812	2,520	For filing a request for reexamination																																																																																																																																																																																	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																	
1805	1,840	1805	1,840	Requesting publication of SIR after Examiner																																																																																																																																																																																	
1251	110	2251	55	Extension for reply within first month																																																																																																																																																																																	
1252	420	2252	210	Extension for reply within second month																																																																																																																																																																																	
1253	950	2253	475	Extension for reply within third month																																																																																																																																																																																	
1254	1,480	2254	740	Extension for reply within fourth month																																																																																																																																																																																	
1255	2,010	2255	1,005	Extension for reply within fifth month																																																																																																																																																																																	
1401	330	2401	165	Notice of Appeal																																																																																																																																																																																	
1402	330	2402	165	Filing a brief in support of an appeal																																																																																																																																																																																	
1403	290	2403	145	Request for oral hearing																																																																																																																																																																																	
1451	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																	
1452	110	2452	55	Petition to revive - unavoidable																																																																																																																																																																																	
1453	1,330	2453	665	Petition to revive - unintentional																																																																																																																																																																																	
1501	1,330	2501	665	Utility issue fee (or reissue)																																																																																																																																																																																	
1502	460	2502	230	Design issue fee																																																																																																																																																																																	
1503	640	2503	320	Plant issue fee																																																																																																																																																																																	
1460	130	1460	130	Petitions to the Commissioner																																																																																																																																																																																	
1807	50	1807	50	Petitions related to provisional applications																																																																																																																																																																																	
1806	180	1806	180	Submission of Information Disclosure Stmt																																																																																																																																																																																	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																	
1809	770	2809	385	Filing a submission after final refection (37 CFR 1.129(a))																																																																																																																																																																																	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																	
Other fee (specify) _____																																																																																																																																																																																					
Other fee (specify) _____																																																																																																																																																																																					
*Reduced by Basic Filing Fee Paid					<b>SUBTOTAL (3)</b> <span style="border: 1px solid black; padding: 2px;">(\$)-0-</span>																																																																																																																																																																																

  

<h3 style="margin: 0;">FEE CALCULATION</h3> <h4 style="margin: 5px 0;">1. BASIC FILING FEE</h4> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1001</td><td>770</td><td>2001</td><td>370</td><td>Utility filing fee</td><td>770.00</td></tr> <tr><td>1002</td><td>340</td><td>2002</td><td>170</td><td>Design filing fee</td><td></td></tr> <tr><td>1003</td><td>530</td><td>2003</td><td>265</td><td>Plant filing fee</td><td></td></tr> <tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td>Reissue filing fee</td><td></td></tr> <tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td>Provisional filing fee</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (1)</td> <td><span style="border: 1px solid black; padding: 2px;">\$770.00</span></td> </tr> </tbody> </table> <h4 style="margin: 5px 0;">2. EXTRA CLAIM FEES</h4> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th>Extra Claims</th> <th>Req. Fee</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td><span style="border: 1px solid black; padding: 2px;">10</span></td> <td>-20**= <span style="border: 1px solid black; padding: 2px;">-0-</span></td> <td>X <span style="border: 1px solid black; padding: 2px;">18.</span></td> <td>= <span style="border: 1px solid black; padding: 2px;">-0-</span></td> </tr> <tr> <td>Independent Claims</td> <td><span style="border: 1px solid black; padding: 2px;">2</span></td> <td>- 3**= <span style="border: 1px solid black; padding: 2px;">-0-</span></td> <td>X <span style="border: 1px solid black; padding: 2px;">86.</span></td> <td>= <span style="border: 1px solid black; padding: 2px;">-0-</span></td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td><span style="border: 1px solid black; padding: 2px;">-0-</span></td> <td></td> <td>= <span style="border: 1px solid black; padding: 2px;">-0-</span></td> </tr> </tbody> </table> <p style="font-size: x-small;">**or number previously paid, if greater; For Reissues, see below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>1201</td><td>84</td><td>2202</td><td>42</td><td>Independent claims in excess of 3</td></tr> <tr><td>1202</td><td>18</td><td>2201</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>1203</td><td>280</td><td>204</td><td>140</td><td>Multiple dependent claim, if not paid</td></tr> <tr><td>1204</td><td>84</td><td>2204</td><td>42</td><td>**Reissue independent claims over original patent</td></tr> <tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td></tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (2) <span style="border: 1px solid black; padding: 2px;">(\$)-0-</span></td> </tr> </tbody> </table>		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1001	770	2001	370	Utility filing fee	770.00	1002	340	2002	170	Design filing fee		1003	530	2003	265	Plant filing fee		1004	770	2004	385	Reissue filing fee		1005	160	2005	80	Provisional filing fee		SUBTOTAL (1)					<span style="border: 1px solid black; padding: 2px;">\$770.00</span>			Extra Claims	Req. Fee	Fee Paid	Total Claims	<span style="border: 1px solid black; padding: 2px;">10</span>	-20**= <span style="border: 1px solid black; padding: 2px;">-0-</span>	X <span style="border: 1px solid black; padding: 2px;">18.</span>	= <span style="border: 1px solid black; padding: 2px;">-0-</span>	Independent Claims	<span style="border: 1px solid black; padding: 2px;">2</span>	- 3**= <span style="border: 1px solid black; padding: 2px;">-0-</span>	X <span style="border: 1px solid black; padding: 2px;">86.</span>	= <span style="border: 1px solid black; padding: 2px;">-0-</span>	Multiple Dependent		<span style="border: 1px solid black; padding: 2px;">-0-</span>		= <span style="border: 1px solid black; padding: 2px;">-0-</span>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	1201	84	2202	42	Independent claims in excess of 3	1202	18	2201	9	Claims in excess of 20	1203	280	204	140	Multiple dependent claim, if not paid	1204	84	2204	42	**Reissue independent claims over original patent	1205	18	2205	9	**Reissue claims in excess of 20 and over original patent	SUBTOTAL (2) <span style="border: 1px solid black; padding: 2px;">(\$)-0-</span>					
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																														
1001	770	2001	370	Utility filing fee	770.00																																																																																														
1002	340	2002	170	Design filing fee																																																																																															
1003	530	2003	265	Plant filing fee																																																																																															
1004	770	2004	385	Reissue filing fee																																																																																															
1005	160	2005	80	Provisional filing fee																																																																																															
SUBTOTAL (1)					<span style="border: 1px solid black; padding: 2px;">\$770.00</span>																																																																																														
		Extra Claims	Req. Fee	Fee Paid																																																																																															
Total Claims	<span style="border: 1px solid black; padding: 2px;">10</span>	-20**= <span style="border: 1px solid black; padding: 2px;">-0-</span>	X <span style="border: 1px solid black; padding: 2px;">18.</span>	= <span style="border: 1px solid black; padding: 2px;">-0-</span>																																																																																															
Independent Claims	<span style="border: 1px solid black; padding: 2px;">2</span>	- 3**= <span style="border: 1px solid black; padding: 2px;">-0-</span>	X <span style="border: 1px solid black; padding: 2px;">86.</span>	= <span style="border: 1px solid black; padding: 2px;">-0-</span>																																																																																															
Multiple Dependent		<span style="border: 1px solid black; padding: 2px;">-0-</span>		= <span style="border: 1px solid black; padding: 2px;">-0-</span>																																																																																															
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description																																																																																															
1201	84	2202	42	Independent claims in excess of 3																																																																																															
1202	18	2201	9	Claims in excess of 20																																																																																															
1203	280	204	140	Multiple dependent claim, if not paid																																																																																															
1204	84	2204	42	**Reissue independent claims over original patent																																																																																															
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent																																																																																															
SUBTOTAL (2) <span style="border: 1px solid black; padding: 2px;">(\$)-0-</span>																																																																																																			

  

<h3 style="margin: 0;">SUBMITTED BY</h3> <p>Name (Print/Type) <span style="border: 1px solid black; padding: 2px;">Timothy P. Evans</span></p> <p>Signature </p>		<h3 style="margin: 0;">Complete (if applicable)</h3> <p>Reg. Number (Attorney/Agent) <span style="border: 1px solid black; padding: 2px;">41,013</span></p> <p>Date <span style="border: 1px solid black; padding: 2px;">1/13/2004</span></p> <p>Telephone <span style="border: 1px solid black; padding: 2px;">(925) 294-3690</span></p>	
--	--	---	--

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO 2038

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.